

WHAT IS CLAIMED IS:

1. A flat panel display device having a flat panel display, comprising:
an outer casing having a side wall;
a first frame that supporting the flat panel display, the first frame having a first side
5 panel;
a second frame configured to engage the first frame with the flat panel display
therebetween, the second frame having a second side panel, the second side panel defining an
opening; and
a bracket between the first and second side panels of the first and second frames,
10 respectively, the bracket having a projecting part configured to be fitted in the opening of the
second side panel of the second frame, wherein the frame is secured to the side wall of the outer
casing with a fastener coupled to the bracket through the outer casing.
2. The flat panel display device of claim 1, wherein the second side panel of the
second frame includes at least one protrusion projecting adjacent the opening in the second side
panel, and wherein the bracket defines at least one receptacle sized to receive the protrusion, the
receptacle and the projecting part being arranged in the bracket to engage the protrusion and the
5 opening, respectively, of the second frame.
3. The flat panel display device of claim 2, wherein the second side panel of the
second frame includes two protrusions projecting on opposite sides of the opening, and wherein
the bracket defines two receptacles sized to receive corresponding protrusions.
4. The flat panel display device of claim 1, wherein the second side panel of the
second frame includes at least one receptacle formed adjacent the opening in the second side
panel, and wherein the bracket defines at least one protrusion sized to fit in the receptacle, the
protrusion and the projecting part being arranged in the bracket to engage the receptacle and the
5 opening, respectively, of the second frame.
5. The flat panel display device of claim 4, wherein the second side panel of the
second frame includes two receptacles formed on opposite sides of the opening, and wherein the
bracket defines two projections sized to fit in the corresponding receptacles.
6. The flat panel display device of claim 1, wherein the projecting part of the bracket
includes a threaded inner surface configured to engage the fastener.

7. The flat panel display device of claim 1, wherein the frame includes a groove defined to receive the bracket, the groove being formed opposite of the opening of the side wall of the second frame.

8. The flat panel display device of claim 7, wherein the projecting part of the bracket includes a threaded inner surface configured to engage the fastener.

9. The flat panel display device of claim 7, wherein the second side panel of the second frame includes at least one protrusion projecting adjacent the opening in the second side panel, and wherein the bracket defines at least one receptacle sized to receive the protrusion, the receptacle and the projecting part being arranged in the bracket to engage the protrusion and the opening, respectively, of the second frame.

10. The flat panel display device of claim 1, the first side panel of the first frame having a recess configured to slidably receive the bracket, the recess of the first side panel defining an aperture, wherein the projecting part of the bracket is aligned with the aperture of the recess.

11. The flat panel display device of claim 10, wherein the projecting part of the bracket includes a threaded inner surface configured to engage the fastener.

12. The flat panel display device of claim 10, wherein the second frame projects a lever in the opening of the side panel, the lever pressing the projecting part of the bracket to hold the bracket in the recess.

13. The flat panel display device of claim 10, wherein at least one hook is projecting in the recess from the first side panel of the first frame to securely engage the bracket in the recess.

14. The flat panel display device of claim 13, wherein the second frame projects a lever in the opening of the second side panel, the lever pressing the projecting part of the bracket to hold the bracket in the recess.

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15. A portable display device comprising:
a flat panel display that displays images;
a controller connected to the flat panel display for controlling the images;
an outer casing that encloses at least a part of the flat panel display, the outer casing
5 having at least one side wall;
a frame that supports the flat panel display, the frame having at least one side panel;
a top case configured to engage the frame with the flat panel display therebetween, the
top case having at least one side panel and the side panel defining an opening; and
a bracket disposed between the side panels of the frame and the top case, the bracket
10 having a projecting part configured to be fitted in the opening of the side panel of the top case,
wherein the frame is secured to the side wall of the outer casing with a fastener coupled to the
bracket through the outer casing.

16. The display unit of claim 15, wherein the side panel of the top case includes at
least one protrusion projecting adjacent the opening in the side panel, and wherein the bracket
defines at least one receptacle sized to receive the protrusion, the receptacle and the projecting
part being arranged in the bracket to engage the protrusion and the opening, respectively, of the
5 top case.

17. The display unit of claim 16, wherein the side panel of the top case includes two
protrusions projecting on opposite sides of the opening, and wherein the bracket defines two
receptacles sized to receive corresponding protrusions.

18. The display unit of claim 15, wherein the side panel of the top case includes at
least one receptacle formed adjacent the opening in the side panel, and wherein the bracket
defines at least one protrusion sized to fit in the receptacle, the protrusion and the projecting part
being arranged in the bracket to engage the receptacle and the opening, respectively, of the top
5 case.

19. The display unit of claim 18, wherein the side panel of the top case includes two
receptacles formed on opposite sides of the opening, and wherein the bracket defines two
projections sized to fit in the corresponding receptacles.

20. The display unit of claim 15, wherein the projecting part of the bracket includes a
threaded inner surface configured to engage the fastener.

21. The display unit of claim 15, wherein the frame includes a groove defined to receive the bracket, the groove being formed opposite of the opening of the side wall of the top case.

22. The display unit of claim 21, wherein the projecting part of the bracket includes a threaded inner surface configured to engage the fastener.

23. The display unit of claim 21, wherein the side panel of the top case includes at least one protrusion projecting adjacent to the opening in the side panel, and wherein the bracket defines at least one receptacle sized to receive the protrusion, the receptacle and the projecting part being arranged in the bracket to engage the protrusion and the opening, respectively, of the top case.

24. The display unit of claim 15, the side panel of the frame having a recess configured to slidably receive the bracket, the recess of the side panel defining an aperture, wherein the projecting part of the bracket is aligned with the aperture of the recess.

25. The display unit of claim 24, wherein the projecting part of the bracket includes a threaded inner surface configured to engage the fastener.

26. The display unit of claim 24, wherein the top case projects a lever in the opening of the side panel, the lever pressing the projecting part of the bracket to hold the bracket in the recess.

27. The display unit of claim 24, wherein at least one hook is projecting in the recess from the side panel of the frame to securely engage the bracket in the recess.

28. The display unit of claim 27, wherein the top case projects a lever in the opening of the side panel, the lever pressing the projecting part of the bracket to hold the bracket in the recess.

29. A flat panel display device, comprising:

an outer casing having at least one side wall;

frame means for supporting a flat panel display, the frame means having at least one side panel;

top case mean for engaging the frame means with the flat panel display therebetween, the top case means having at least one side panel and the side panel defining an opening; and

bracket means for securing the top case means and the frame means to the outer casing, the bracket means being disposed between the side panels of the frame means and the top case means, the bracket means having a projecting part configured to be fitted in the opening of the side panel of the top case, wherein the frame means is secured to the side wall of the outer casing with a fastening means coupled to the bracket means through the outer casing.

30. A method of manufacturing a flat panel display device having a flat panel display, comprising the steps of:

forming an outer casing having a side wall;

forming a first frame that supporting the flat panel display, the first frame having a first side panel;

forming a second frame configured to engage the first frame with the flat panel display therebetween, the second frame having a second side panel, the second side panel defining an opening; and

forming a bracket between the first and second side panels of the first and second frames, respectively, the bracket having a projecting part configured to be fitted in the opening of the second side panel of the second frame, wherein the frame is secured to the side wall of the outer casing with a fastener coupled to the bracket through the outer casing.

31. The method of claim 30, wherein the second side panel of the second frame includes at least one protrusion projecting adjacent the opening in the second side panel, and wherein the bracket defines at least one receptacle sized to receive the protrusion, the receptacle and the projecting part being arranged in the bracket to engage the protrusion and the opening, respectively, of the second frame.

32. The method of claim 31, wherein the second side panel of the second frame includes two protrusions projecting on opposite sides of the opening, and wherein the bracket defines two receptacles sized to receive corresponding protrusions.

33. The method of claim 30, the first side panel of the first frame having a recess configured to slidably receive the bracket, the recess of the first side panel defining an aperture, wherein the projecting part of the bracket is aligned with the aperture of the recess.

34. The method of claim 33, wherein the projecting part of the bracket includes a threaded inner surface configured to engage the fastener.

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